

U.S.S.N. 10/604,534

2

04122 (LC 0136 PUS)

**In the claims:**

1. (Currently Amended) An active keyed locking system for a vehicle comprising:
  - a keyed actuated device;
  - a non-mechanically operated position sensor proximate to ~~isaid~~said keyed actuated device and generating a position signal indicative of position of said keyed actuated device; and
  - a controller electrically coupled to said position sensor and enabling at least one vehicle component in response to said position signal.
2. (Original) A system as in claim 1 wherein said keyed actuated device is a lock assembly.
3. (Original) A system as in claim 1 wherein said keyed actuated device is a key.
4. (Original) A system as in claim 3 wherein said key comprises a signal generator generating a transmission signal.
5. (Original) A system as in claim 3 wherein said key comprises a field-altering device.
6. (Original) A system as in claim 3 wherein said key comprises a magnetic device.
7. (Original) A system as in claim 3 wherein said key comprises:
  - a coil; and
  - a transponder coupled to said coil and generating a transmission signal.
8. (Original) A system as in claim 3 wherein said key generates an authorization signal, said controller enabling at least one vehicle component in response to said authorization signal.
9. (Original) A system as in claim 1 wherein said position sensor is selected from at least one of a series of magnets, a coil, a potentiometer, an encoder, an optical sensor, an infrared sensor, a hall effect sensor, a rotary variable differential transformer, a rotary variable inductance transducer, an angular position sensor, or a resolver.

U.S.S.N. 10/604,534

3

04122 (LC 0136 PUS)

10. (Original) A system as in claim 1 wherein said position sensor is coupled within a base station.

11. (Original) A system as in claim 1 wherein said controller enables a vehicle component selected from at least one of a vehicle accessory, an ignition, a door lock, and a vehicle system in response to said position signal.

12. (Original) A system as in claim 1 further comprising a recognition device recognizing a key and generating a recognition signal wherein said controller enables the active keyed locking system in response to said recognition signal.

13. (Original) A system as in claim 1 wherein said keyed actuated device is a lock assembly, said lock assembly comprising a key antenna.

14. (Currently Amended) An ignition enabling system for a vehicle comprising:

a key having a transponder;

a lock assembly;

~~a position sensor proximate to said lock assembly~~  
sensing position of said key, in response to a change in an electric field proximate said lock assembly, and generating a position signal indicative of [[a]]said position of the key; and

a controller electrically coupled to said position sensor and enabling at least one vehicle component in response to said position signal.

15. (Currently Amended) A method of enabling at least one vehicle component through use of an active keyed locking system comprising:

actuating a keyed actuated device;

determining position of said keyed actuated device without physically contacting said key actuated device and generating a position signal; and

enabling the at least one vehicle component in response to said position signal.

16. (Original) A method as in claim 15 further comprising:

U.S.S.N. 10/604,534

4

04122 (LC 0136 PUS)

recognizing a key and generating a recognition signal; and  
enabling an active keyed locking system in response to said recognition  
signal.

17. (Original) A method as in claim 16 further comprising  
activating a base station in response to said key recognition.

18. (Original) A method as in claim 15 further comprising:  
generating a first authorization signal;  
generating a second authorization signal in response to said first  
authorization signal;  
verifying said second authorization signal; and  
generating said position signal in response to said verification.

19. (Original) A method as in claim 15 wherein determining  
position of said keyed actuated device comprises:  
generating at least one base signal;  
altering said at least one base signal via actuation of said keyed  
actuated device; and  
generating said position signal in response to said alteration of said at  
least one base signal.

20. (Original) A method as in claim 19 wherein said at least one  
base signal is modulated using a modulation technique selected from at least  
one of amplitude modulation, frequency modulation, and phase modulation.